

2010-05-27 Thursday Morning Notes

Thursday, May 27, 2010
7:07 AM

Stacking

- Stacking Numbers
 - <stacking rate> = 22.9 mA/hr
 - <production> = 17.8 pbars/Mp
 - <beam on target> = 8 Tp

Transfers

- Transferred 430mA in 56 transfers over 18 sets with an average efficiency of 95%.

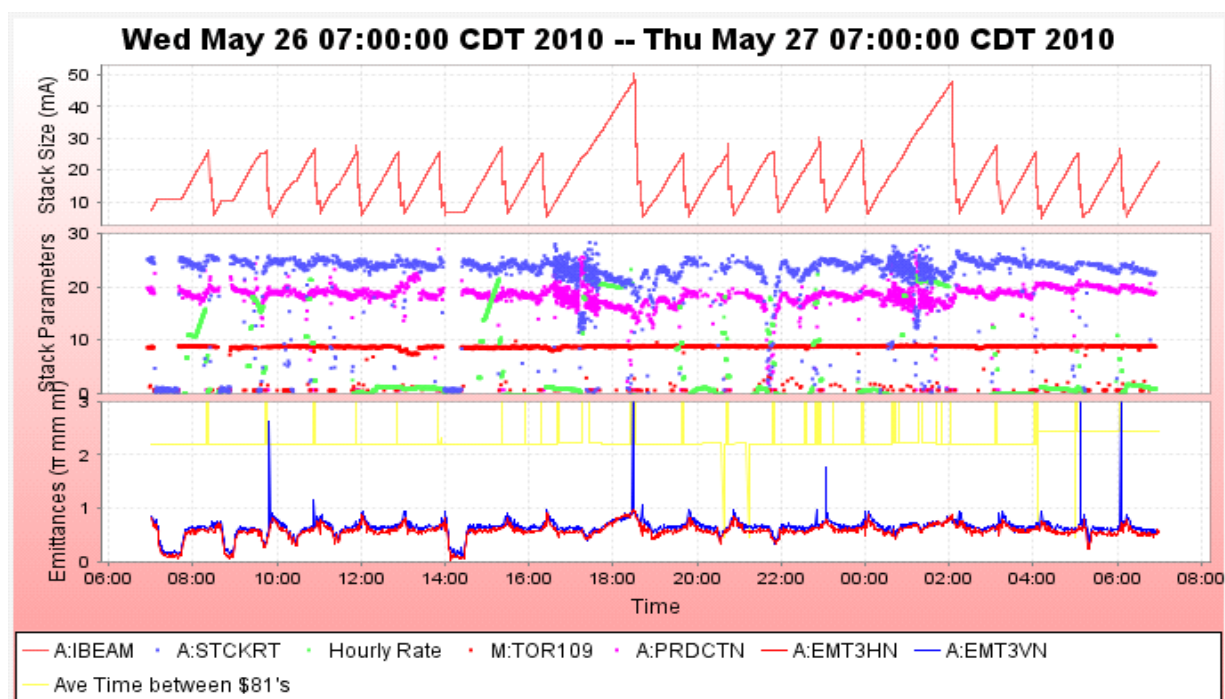
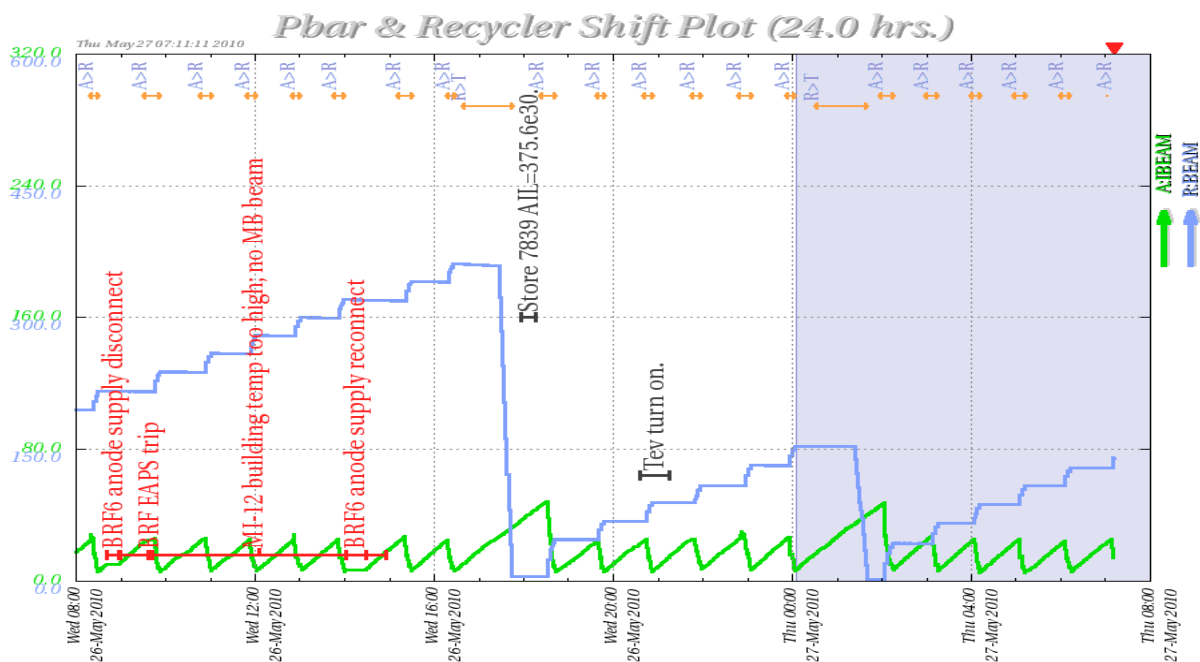
Studies

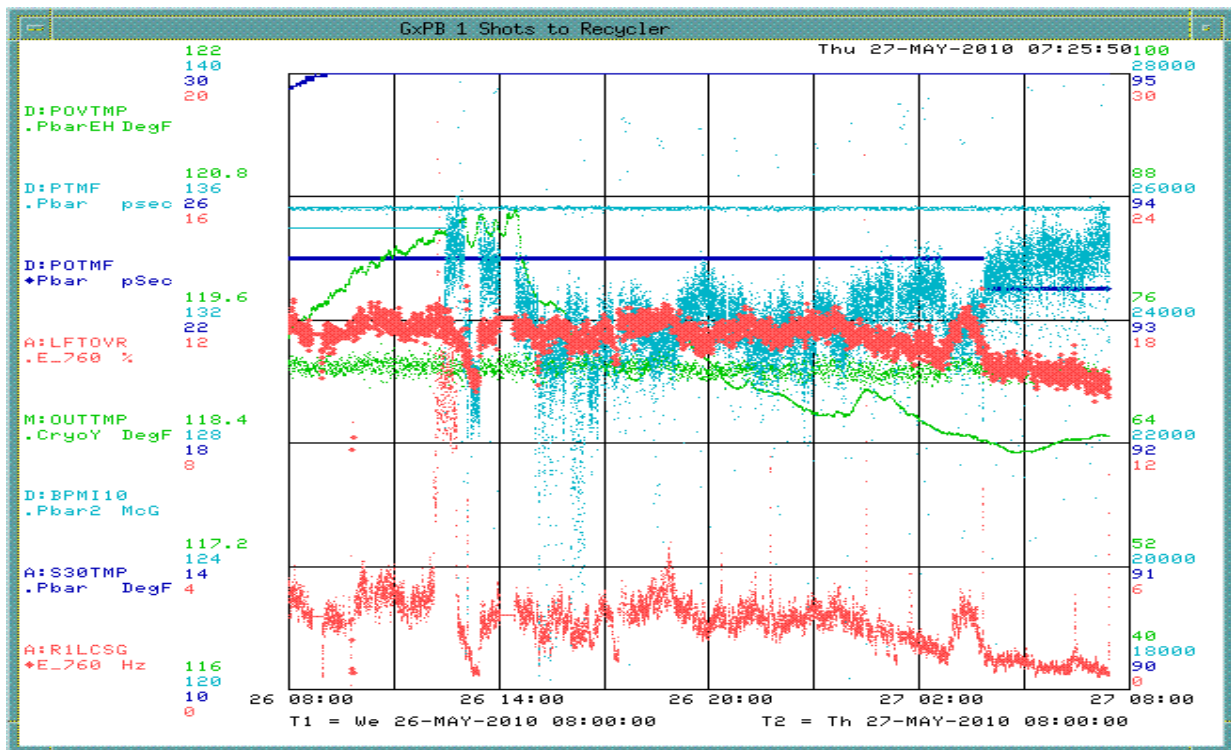
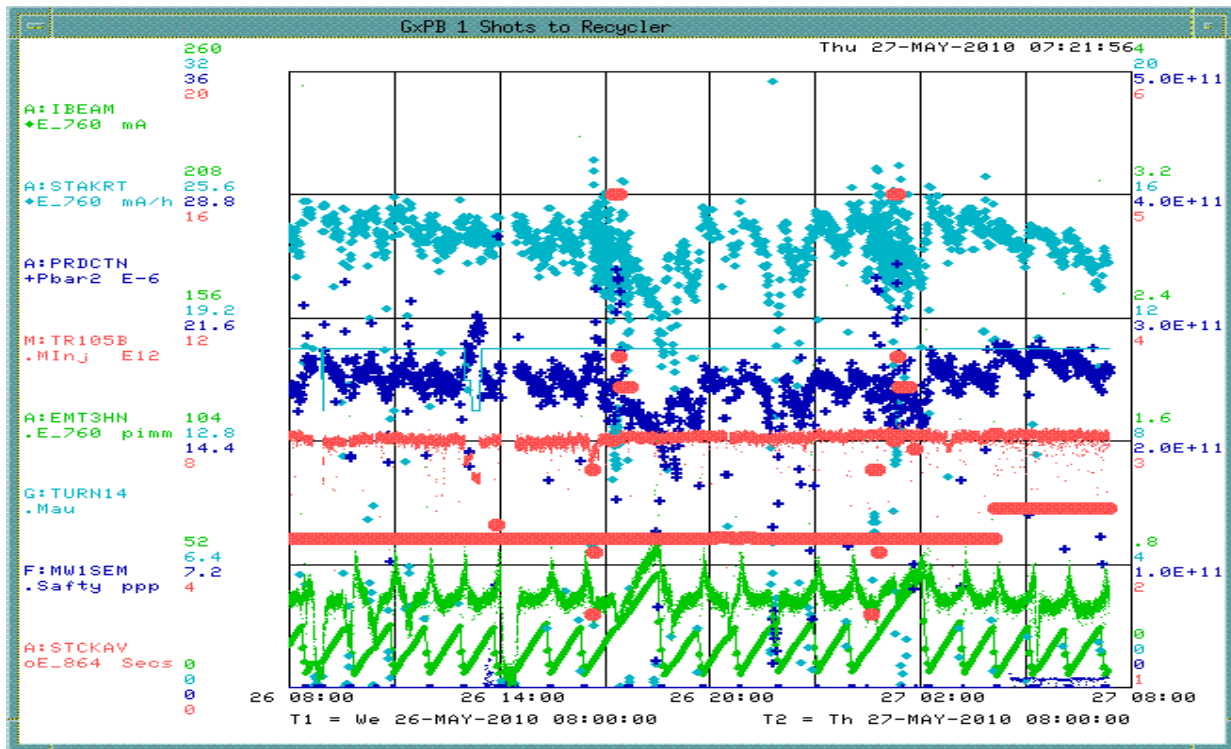
- Stacktail Phasing with 30e10 - looking for opportunistic non-stacking time
- Stacktail tank moving - parasitic
- Jim Morgan would like to change beamline C204 limits based on calculations using the model. We will be doing one plane of one beamline at a time.

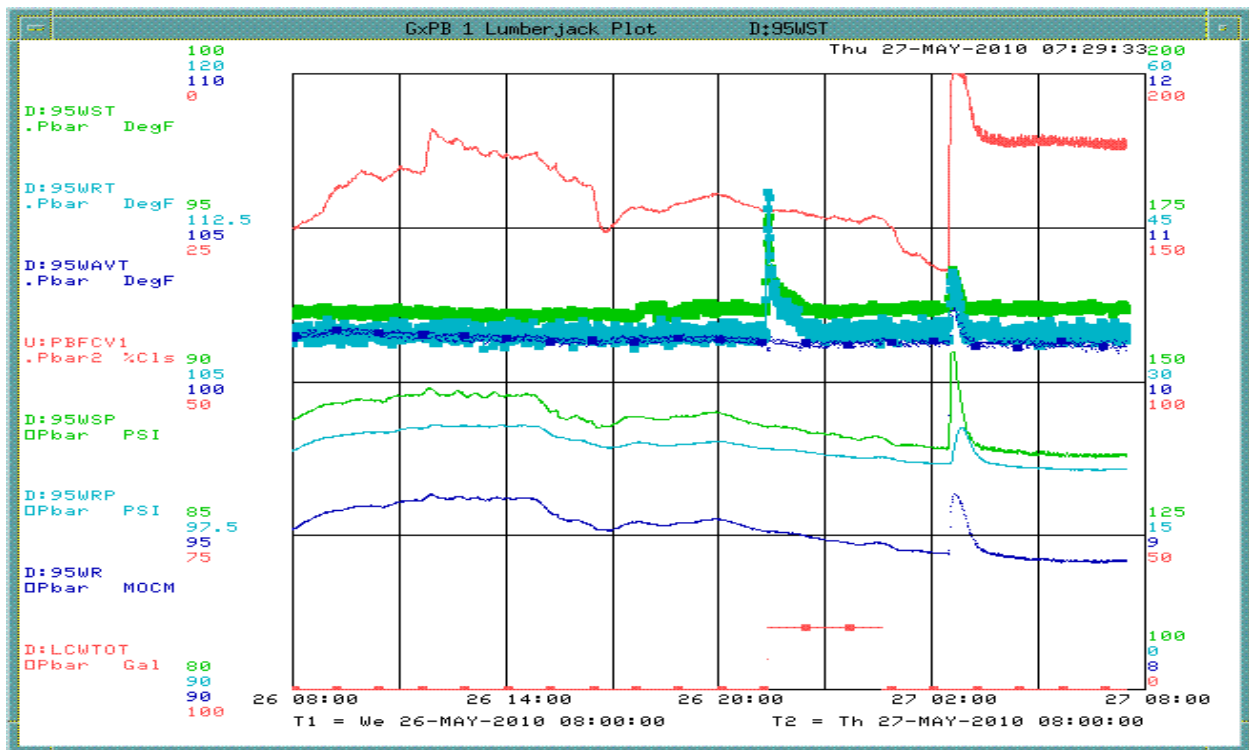
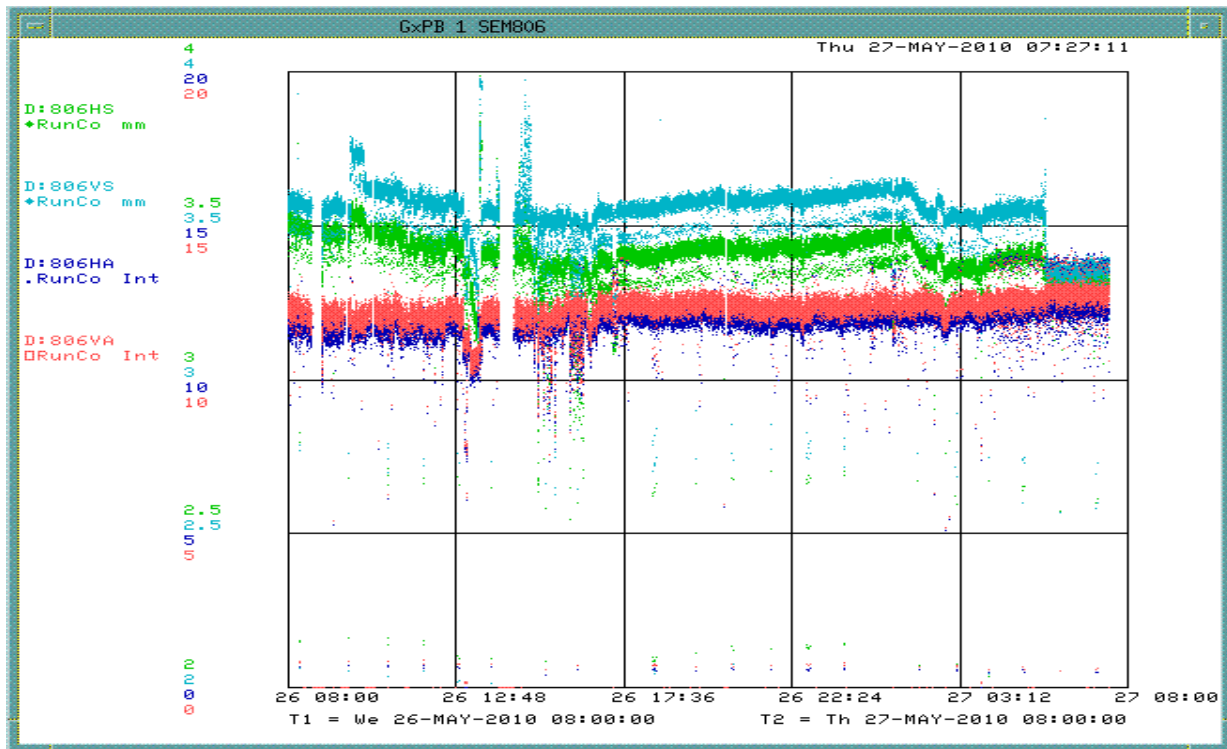
The Numbers

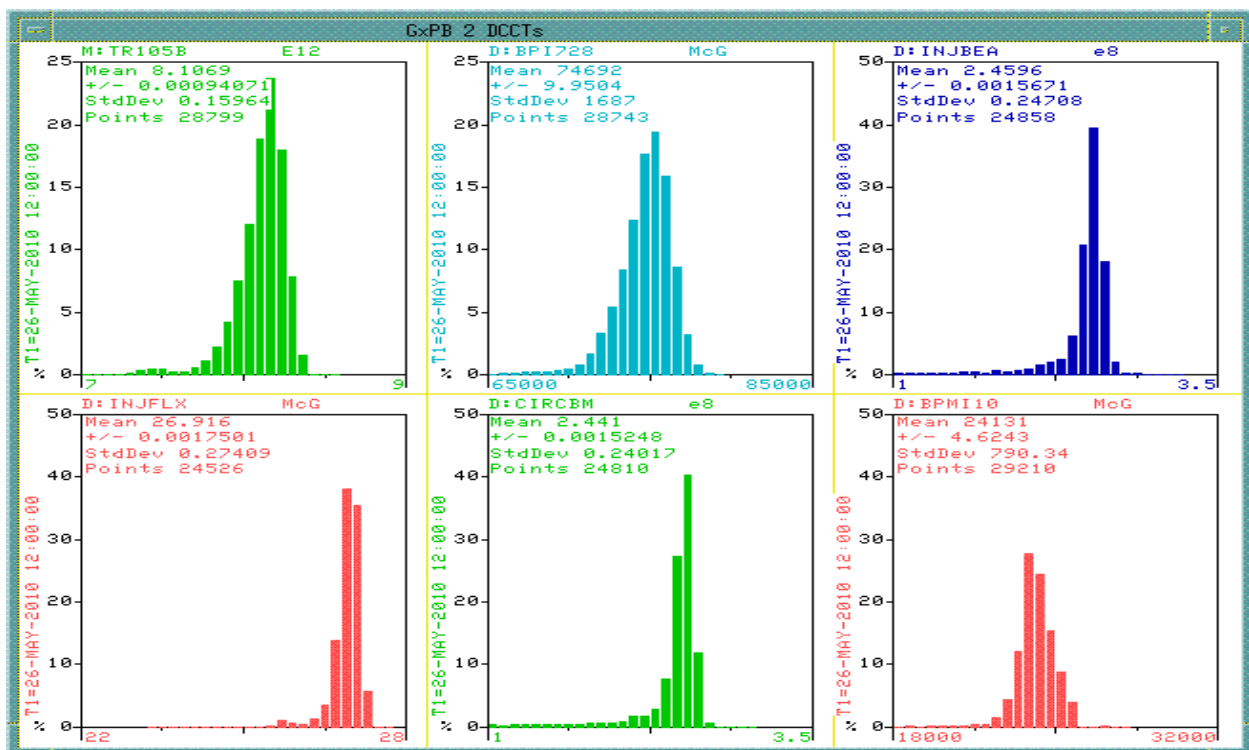
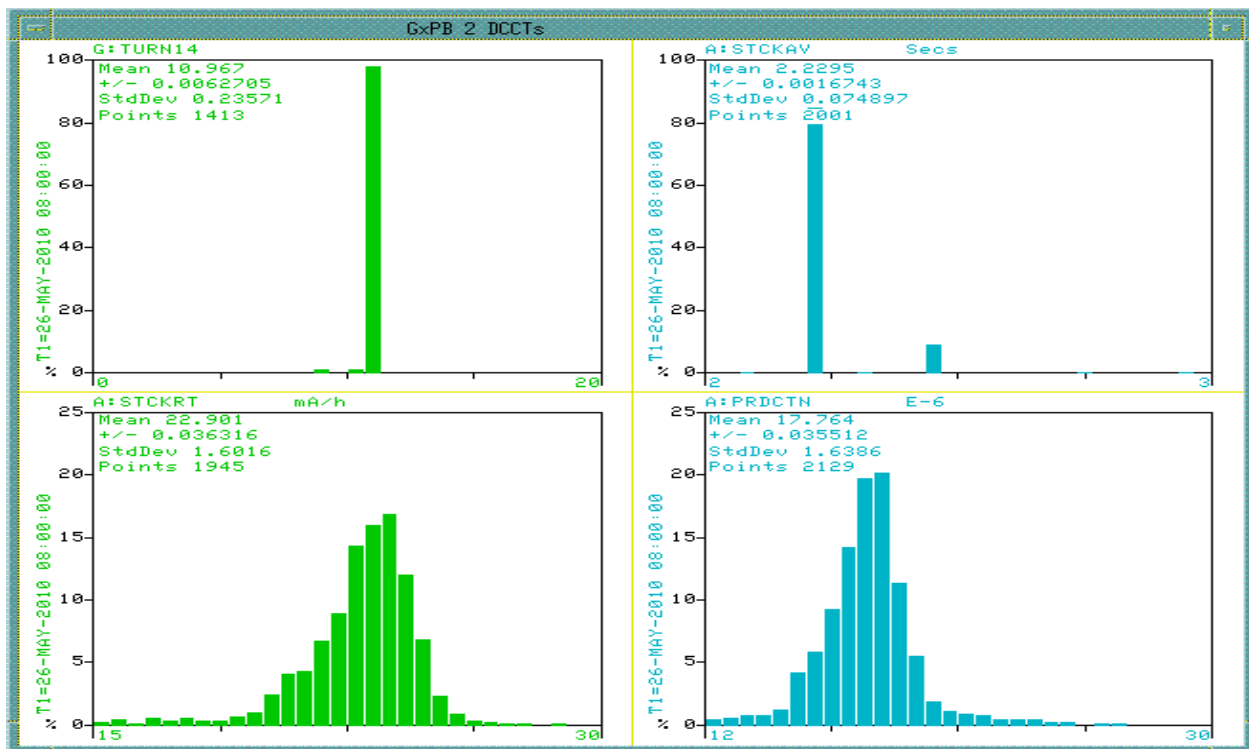
- Stacking
 - Pbars stacked: 495.68 E10
 - Time stacking: 23.55 Hr
 - Average stacking rate: 21.05 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 37202
 - Number of pulses with beam: 34510
 - Fraction of up pulses was: 92.76%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 21.85 Hr
 - Possible average stacking rate: 22.69 E10/Hr
 - Could have stacked: 534.35 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 474.81 E10
 - Number of transfers : 59
 - Number of transfer sets: 19
 - Average Number of transfer per set: 3.11
 - Time taken to shoot including reverse proton tuneup: 00.21 Hr
 - Transfer efficiency: 94.98%
- Other Info
 - Average POT : 8.08 E12
 - Average production: 17.78 pbars/E6 protons
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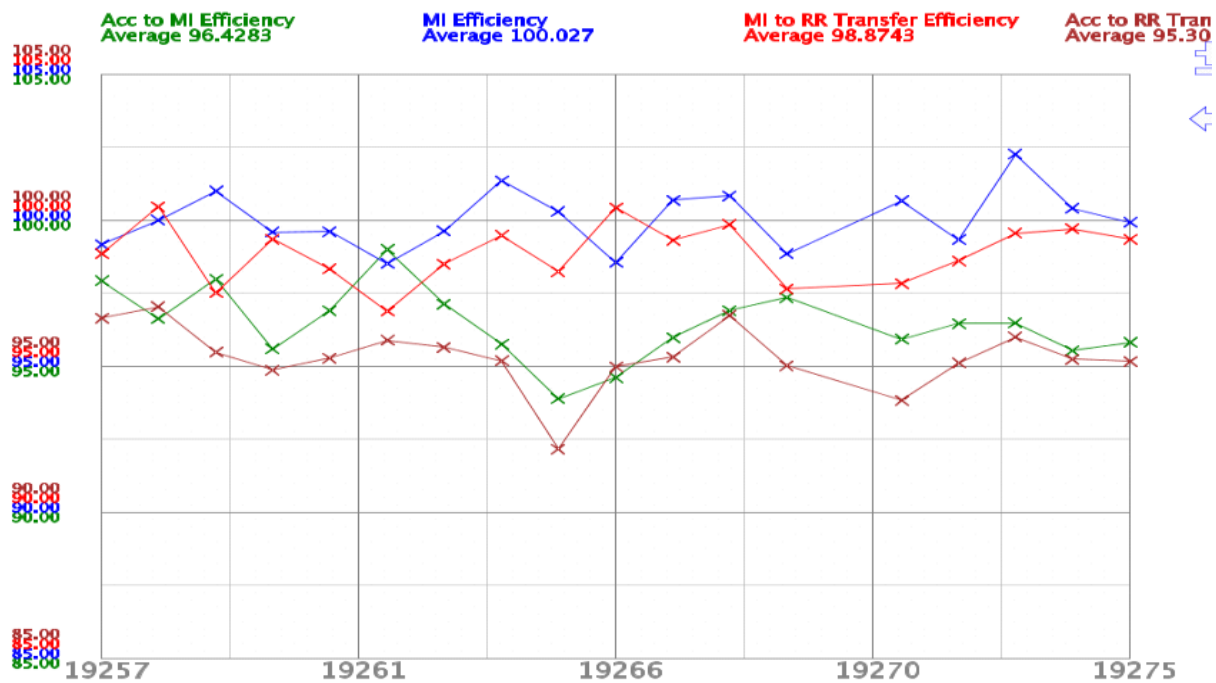
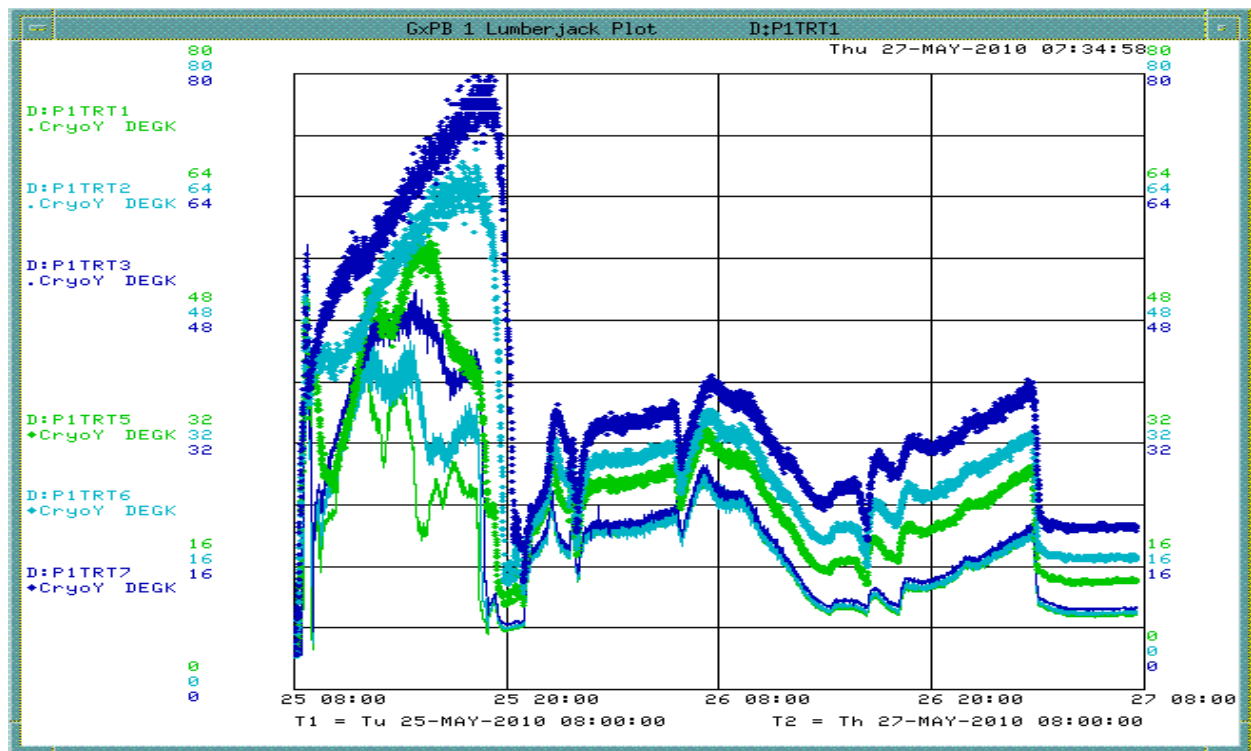
The Plots











Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R: BEAMS (R:BEA ME0(0)) pre fer E10	Column 24 Number _23_R: BEAM (R:BEA ME0(1)) post fer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Trans fers	Set s	Column 5 Number_ 4_Acc Horizontal Emittance	Column 6 Number_ 5_Acc Vertical Emittance	Column 8 Number_ 7_Acc Longitudinal Emittance	
	Totals =>			452.96			430.16	94.97%	96.46%	96.48%	56	18	5.6944	6.1468	1.9736	
19275	Thursday, May 27, 2010	6:05	24.52	5.10	21.77	108.36	129.04	20.73	95.20%	96.24%	95.97%	3	1	5.335	5.784	1.973
19274	Thursday, May 27, 2010	5:04	25.40	5.13	22.53	87.06	108.43	21.45	95.21%	95.65%	96.10%	3	1	5.15	6.168	1.97
19273	Thursday, May 27, 2010	4:04	25.61	4.83	22.52	65.74	87.21	21.56	95.72%	96.89%	98.25%	3	1	5.433	5.825	1.961
19272	Thursday, May 27, 2010	3:08	27.80	6.04	24.12	42.95	65.88	22.94	95.14%	96.40%	96.02%	3	1	5.801	6.366	1.97
19271	Thursday, May 27, 2010	2:03	47.76	6.15	44.93	1.47	43.12	41.96	93.39%	95.80%	95.99%	4	1	6.604	6.667	1.947
19269	Wednesday, May 26, 2010	22:57	28.54	6.45	24.45	108.77	131.85	23.22	94.97%	96.65%	96.66%	3	1	6.06	6.773	2.001
19268	Wednesday, May 26, 2010	21:49	25.59	6.56	20.12	89.49	108.91	19.47	96.76%	97.00%	97.59%	3	1	3.735	4.053	1.983
19267	Wednesday, May 26, 2010	20:44	25.63	5.26	22.67	68.19	89.67	21.58	95.18%	96.09%	97.16%	3	1	5.638	5.844	1.974
19266	Wednesday, May 26, 2010	19:40	24.99	5.13	22.07	47.40	68.34	21.01	95.22%	95.34%	95.13%	3	1	6.017	6.41	1.994
19265	Wednesday, May 26, 2010	18:32	48.42	5.05	46.04	5.60	47.52	42.11	91.45%	94.39%	94.09%	4	1	6.944	7.306	1.965
19264	Wednesday, May 26, 2010	16:18	25.27	5.11	22.45	340.31	361.38	21.36	95.15%	96.48%	98.05%	3	1	5.792	6.246	1.981
19263	Wednesday, May 26, 2010	15:21	27.41	5.93	23.78	319.01	341.48	22.80	95.91%	97.26%	96.79%	3	1	6.174	6.531	1.966
19262	Wednesday, May 26, 2010	13:52	25.63	5.60	22.38	299.35	320.68	21.49	96.02%	98.61%	97.19%	3	1	6.056	6.611	1.989
19261	Wednesday, May 26, 2010	12:53	25.90	5.86	22.43	279.12	300.36	21.38	95.31%	96.96%	96.83%	3	1	5.974	6.408	1.988
19260	Wednesday, May 26, 2010	11:54	25.44	5.51	22.31	258.96	280.00	21.14	94.76%	96.69%	96.31%	3	1	5.873	6.199	1.972
19259	Wednesday, May 26, 2010	10:54	26.58	6.04	22.91	237.82	259.53	21.85	95.36%	97.63%	98.27%	3	1	6.105	6.336	1.983
19258	Wednesday, May 26, 2010	9:45	26.03	5.04	23.29	215.82	238.30	22.68	97.36%	97.42%	96.39%	3	1	4.422	5.44	1.949
19257	Wednesday, May 26, 2010	8:22	25.99	5.66	22.20	194.84	216.23	21.45	96.63%	97.55%	96.89%	3	1	5.386	5.675	1.959